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(56) Documents Cited by ISA

US 4527627 A US 3888311 A US 3659651 A US 3481401 A

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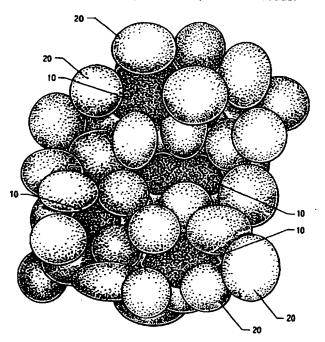
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## (54) Abstract Title

## Formation treatment method using deformable particles

(57) A subterranean formation is treated by injecting a blend of fracture proppant material (20) and a deformable particulate material (10) into the formation. The deformable particulate material (10) may combine with fracture proppant material (20) to increase fracture conductivity, reduce fines generation, and/or reduce proppant flowback. The fracture proppant material may be a material such as sand, and the deformable particulate material may be a material such as polystyrene divinylbenzene beads.



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